

PRODUCT SUMMARY

SKY53728-21 Sky5®: 5G NR UHB Diversity Receive Module

Applications

- 5G NR sub-6GHz smartphones and tablets
- 5G NR sub-6GHz data cards

Features

- Low insertion loss
- High-performance variable gain LNAs
- Integrated SRS support through TRX port
- Integrated MIPI v2.1+ interface
- Integrated package shielding
- Small (2.8 × 2.6 × 0.7 mm [max]) 21-lead MCM package (MSL3, 260 °C per JEDEC J-STD-020)



Skyworks Green™ products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green™*, document number SQ04-0074.

Description

The SKY53728-21 is a highly integrated LNA filter module that enables users to support new 5G New Radio (NR) bands in the 3.3 to 4.2 GHz frequency range. It utilizes the latest advanced SOI process technologies to achieve leading high-bandwidth, low noise figure (NF) LNA performance in a small package footprint. It also integrates all the required filtering to attenuate unwanted out-of-band blockers in adjacent and far-out frequency bands while maintaining very low insertion loss (IL) performance in the pass-band frequencies.

The SKY53728-21 is part of our Sky5® product portfolio.

The SKY53728-21 is packaged in a small 2.8 × 2.6 × 0.7 mm (max), 21-lead surface-mount package. No external DC blocking capacitors are required on the RF paths as long as no DC voltage is applied. The part can operate over the temperature range of -30 °C to +85 °C.

A functional block diagram is shown in Figure 1.

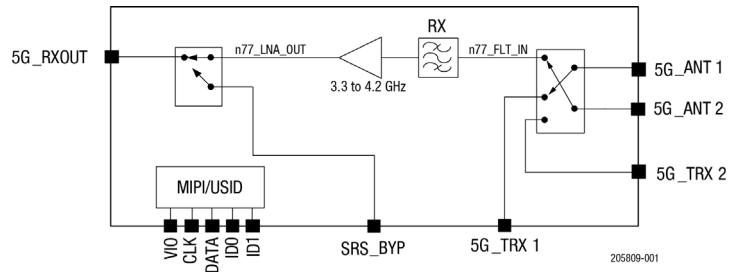


Figure 1. SKY53728-21 Block Diagram

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY53728-21	5G NR Diversity Receive Module	SKY53728-21EK1

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